



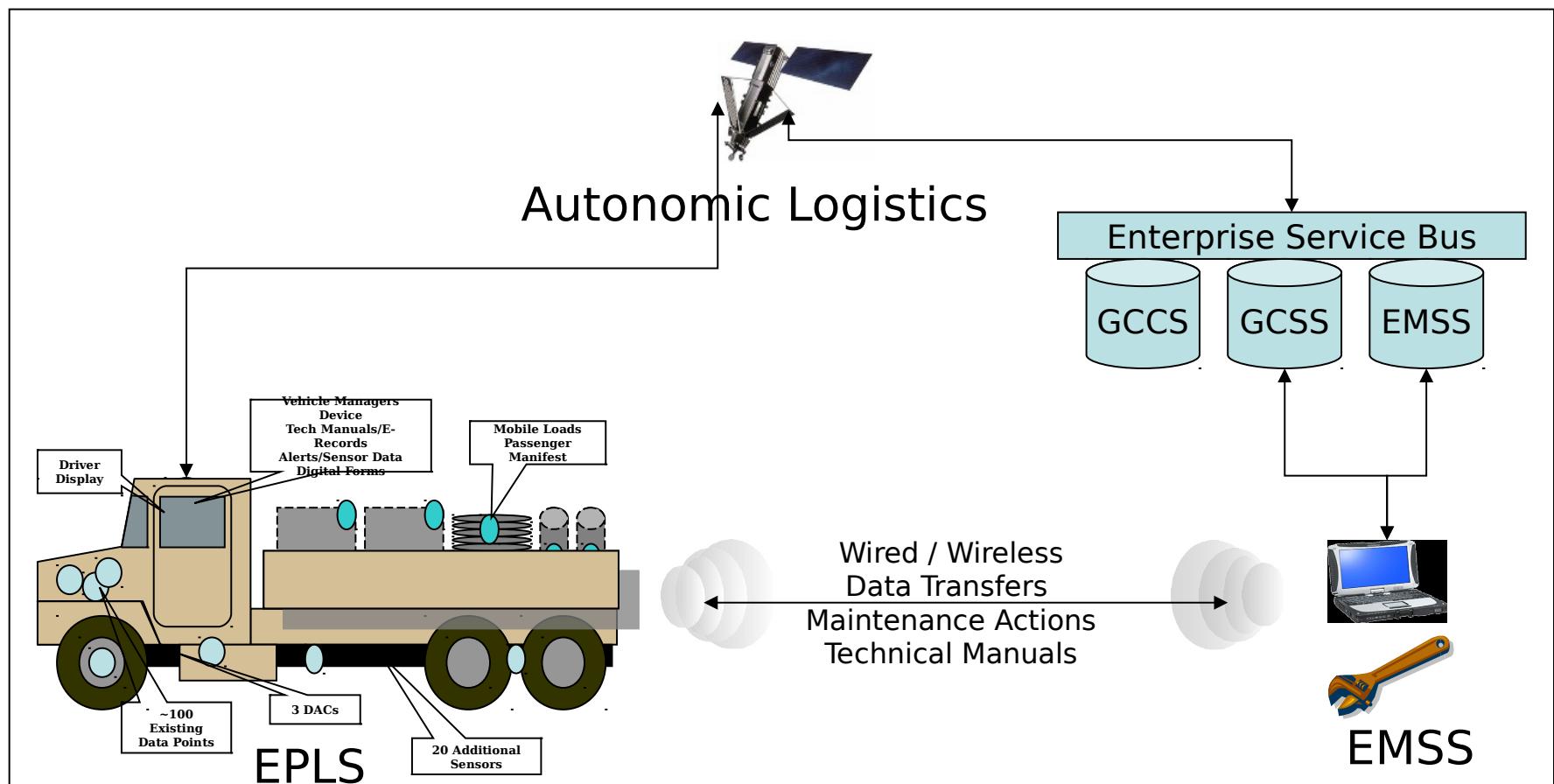
Autonomic Logistics Family of Systems Capabilities Overview



**Program Manager, Autonomic Logistics
Marine Corps Systems Command
July 2009**



Overarching Concept

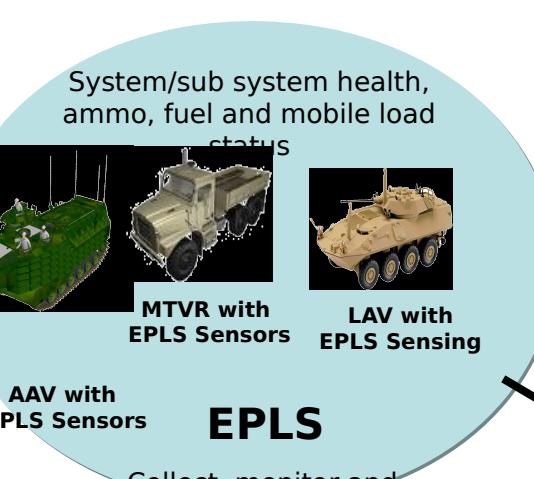




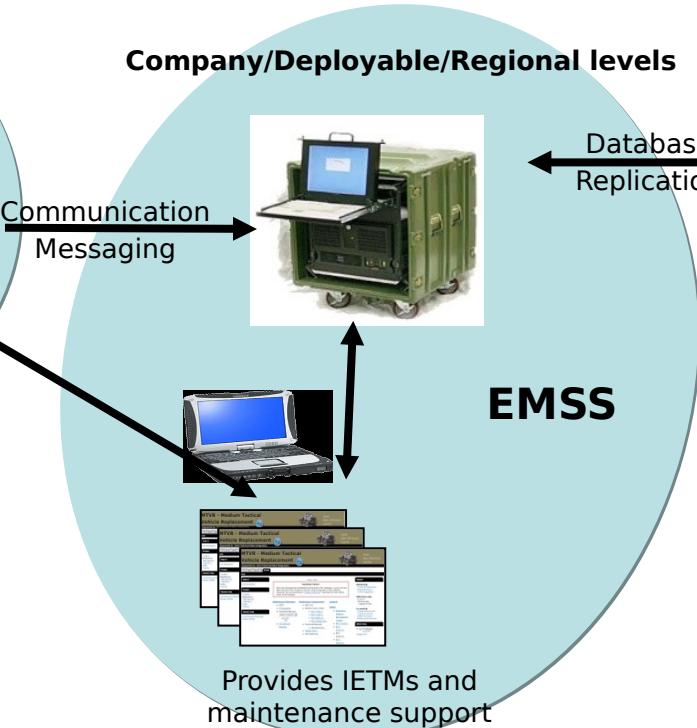
AL Approach to CBM+

Acquire system/subsystem performance/health data, perform diagnostics and analysis at unit, battalion, enterprise (C2 and Logistics) levels

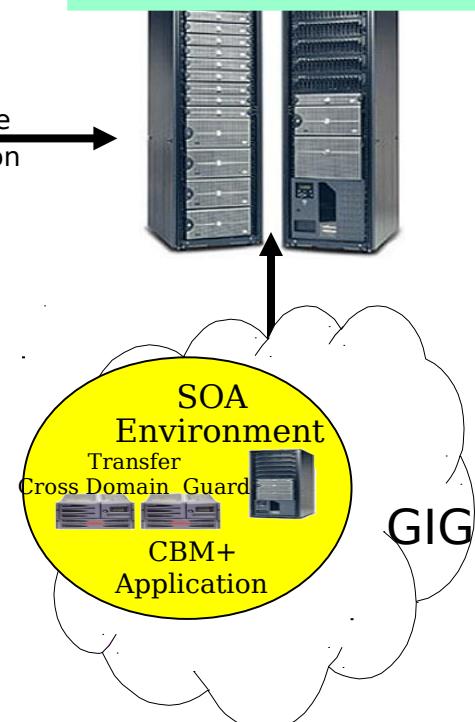
Acquire Data, Assess



Assess, Analyze, Diagnostics,



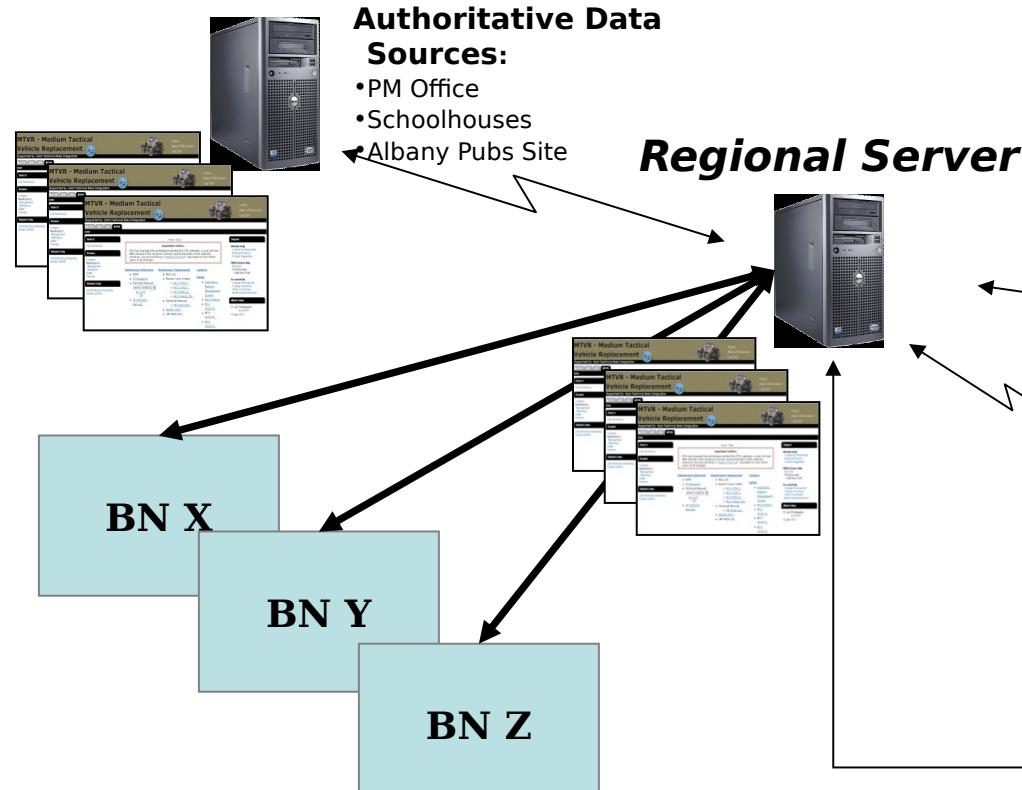
Assess, Analyze, Diagnostics, Prognostics Forecast, Share



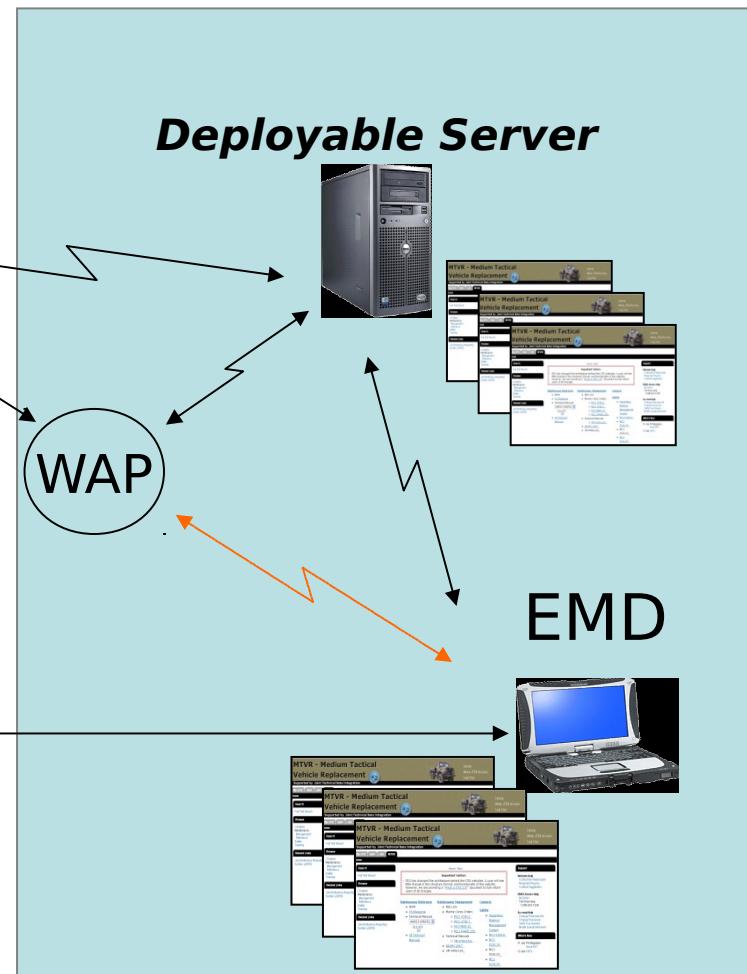


EMSS Architecture

Top Tier



Battalion Level



— Wired
— 802.11 Wireless



MARINE CORPS SYSTEMS COMMAND
UNITED STATES MARINE CORPS

30 Jul 09

Embedded Platform Logistics System (EPLS)



30 Jul 09

MARINE CORPS SYSTEMS COMMAND
UNITED STATES MARINE CORPS

EPLS Goals

- Provides a basic infrastructure to enable condition based maintenance
- Install an “On-platform” sense capability
- Enable USMC autonomic logistics capability
- Provide stand alone capability that immediately supports the vehicle operator and maintainer
 - Digital, open systems design
 - Networking connectivity
- Platforms - LAV, MTVR, AAV, LVSR

**AL supports achievement of Marine Corps
Logistics Modernization goals and
objectives**



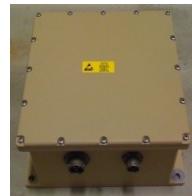
MARINE CORPS SYSTEMS COMMAND
UNITED STATES MARINE CORPS

30 Jul 09

EPLS Vehicle Kit



Data Acquisition/STE-ICE controllers



Power Supply



Automated Health Monitor



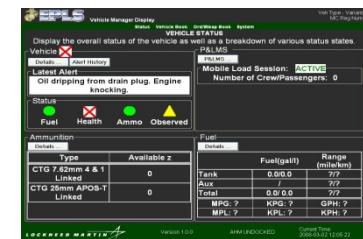
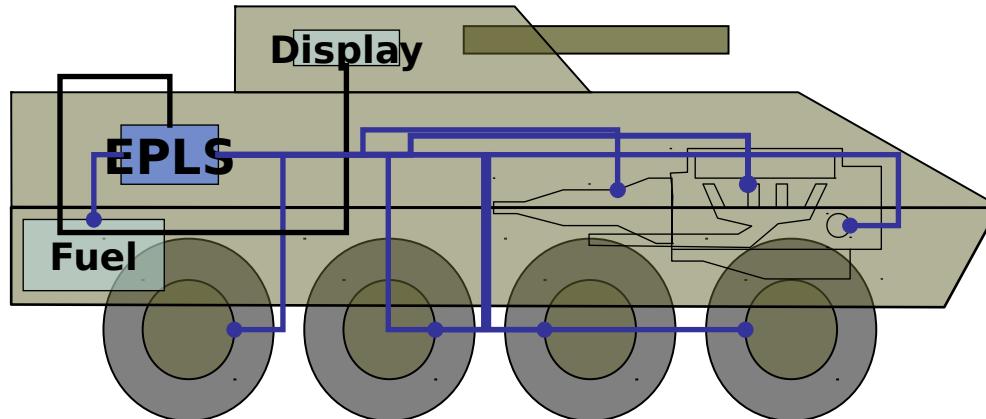
Display



Vehicle Manager Device



Off-Board Service Application - Fleet Status Viewer



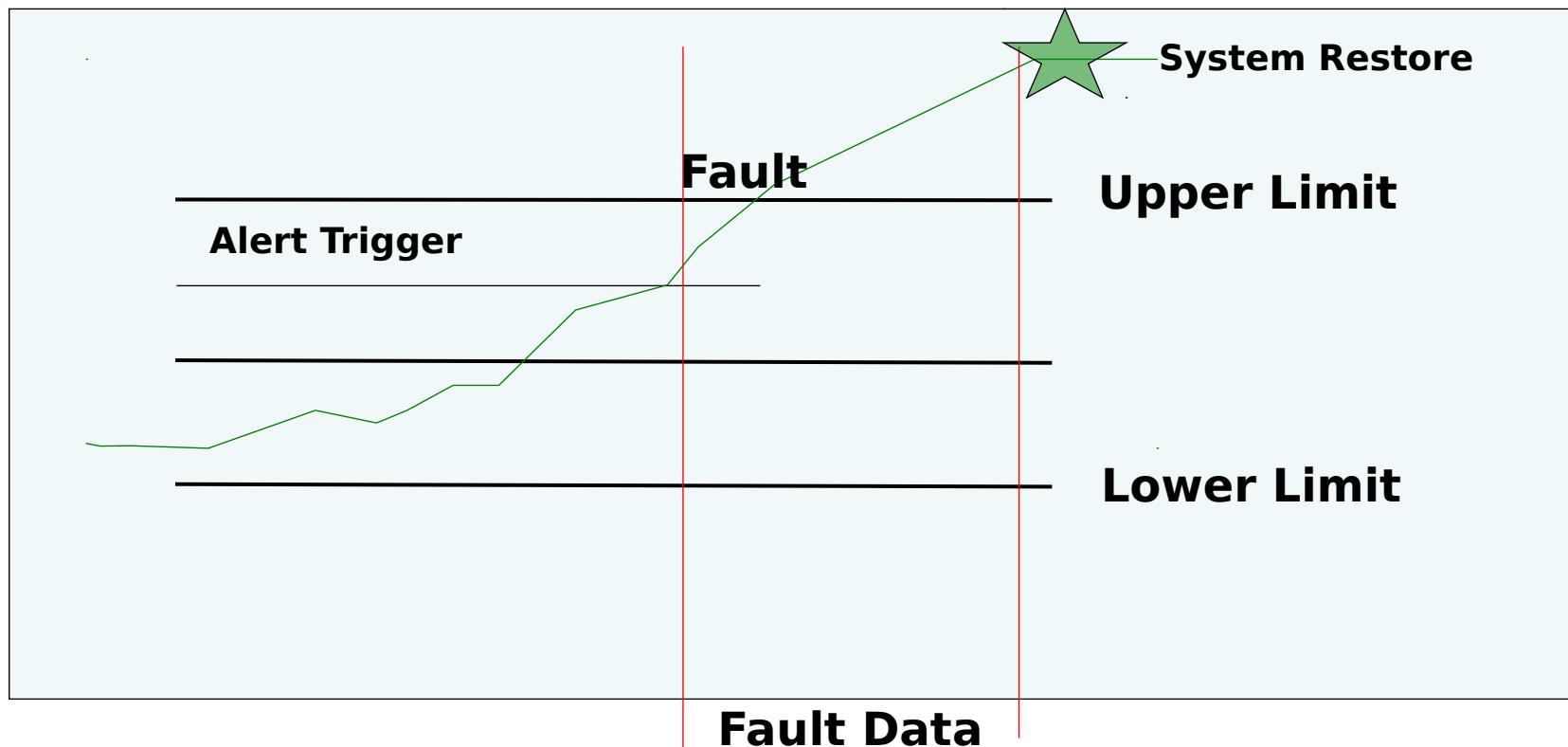
On-Board Software Client



Sensors, Cabling, Digital Data Buss



Business Rules



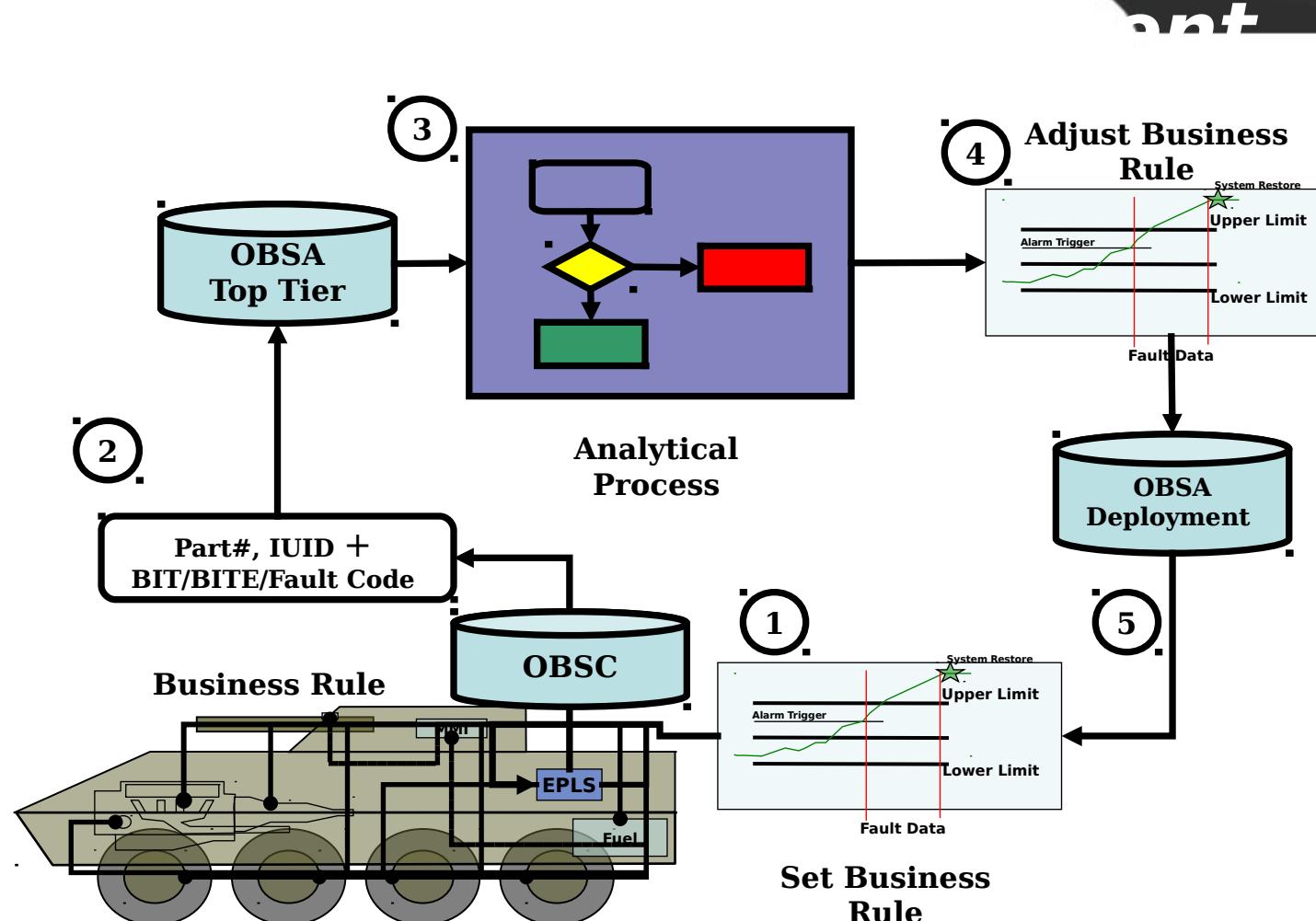


Digital Data

- Platform - IUID
 - Sub-System 1 - IUID
 - Sub-Assembly - IUID
 - Sub-System 2 - IUID
 - Sub-Assembly - IUID
 - Sub-System 3 - IUID
 - Sub-Assembly - IUID
 - Sub-System 4 - IUID
 - Sub-Assembly - IUID
 - Sub-System 5 - IUID
 - Sub-Assembly - IUID



Condition





MARINE CORPS SYSTEMS COMMAND
UNITED STATES MARINE CORPS

30 Jul 09



A silhouette of a Marine in a vehicle, possibly a Humvee, driving towards a sunset. The background shows a dark sky with orange and pink hues.

QUESTIONS?